

FIG.1

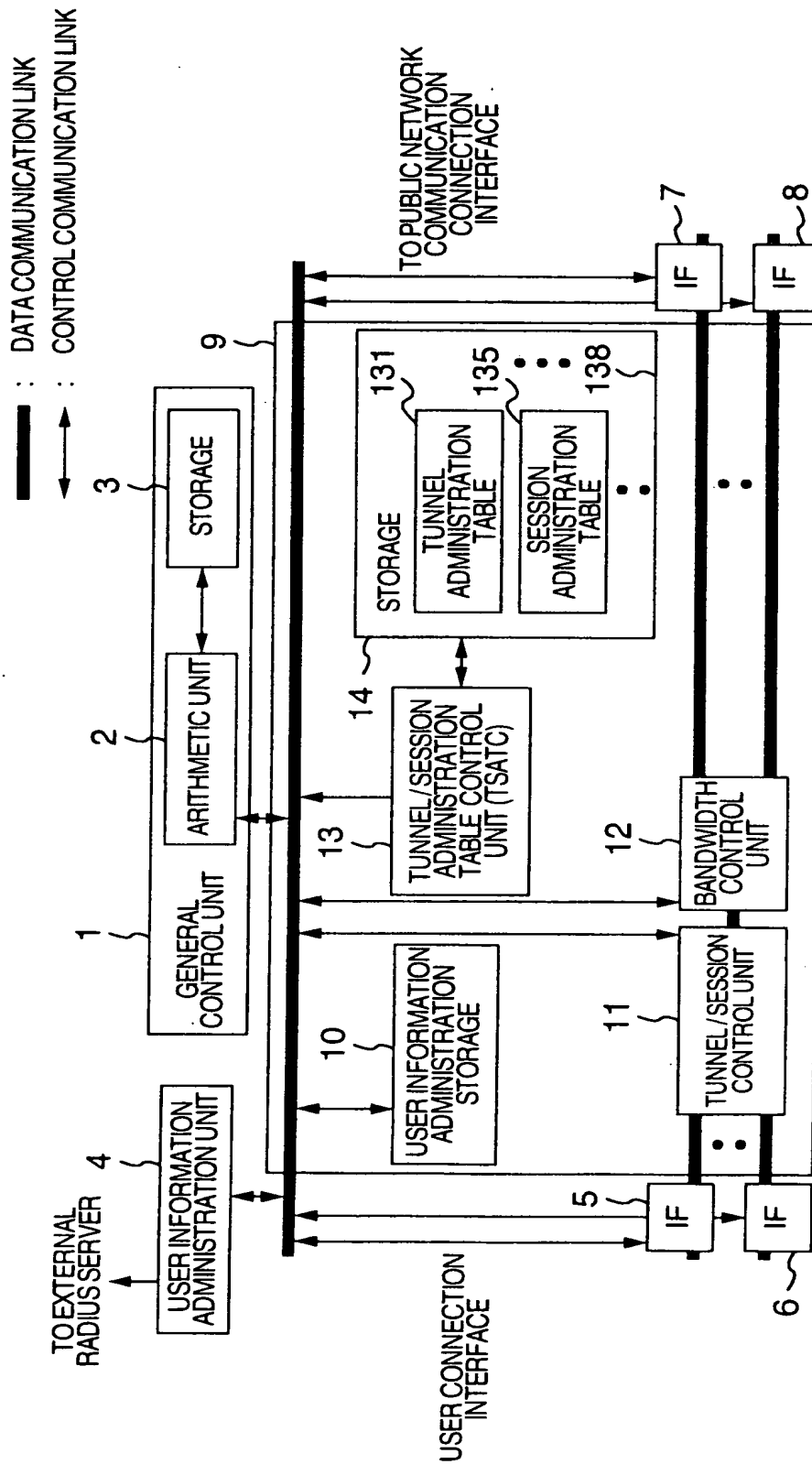


FIG.2

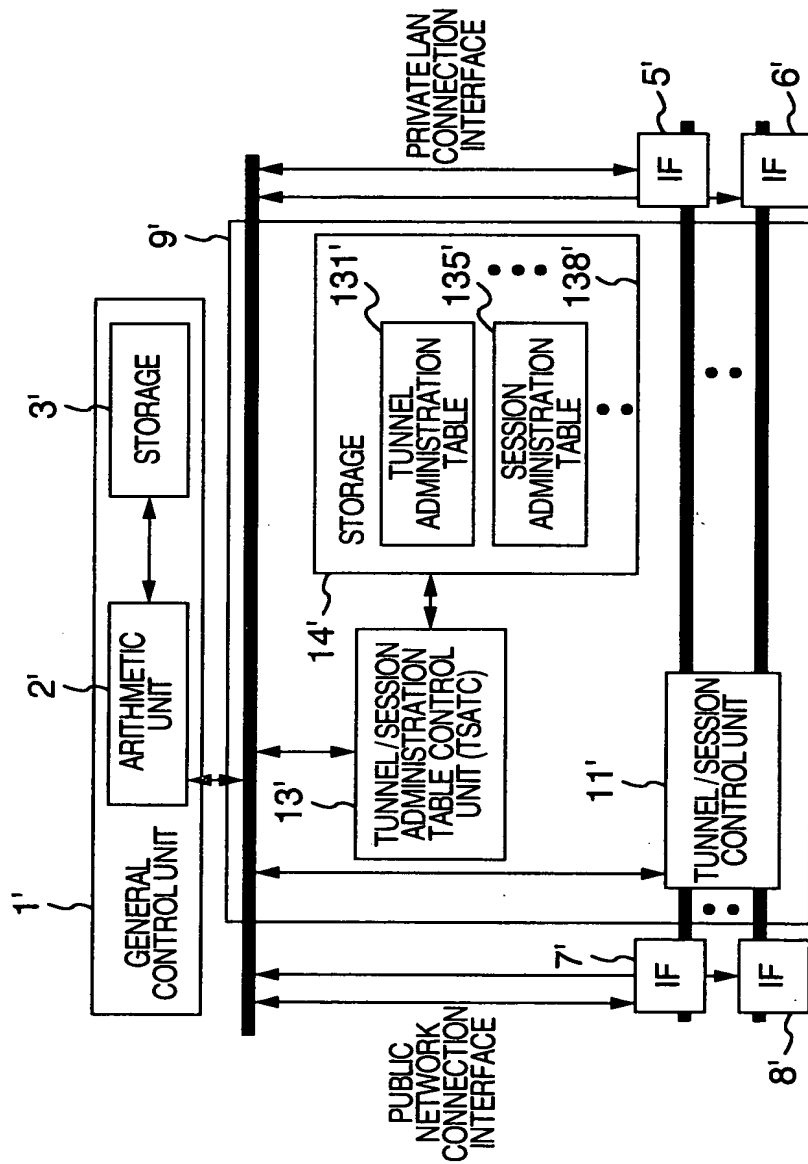


FIG. 3

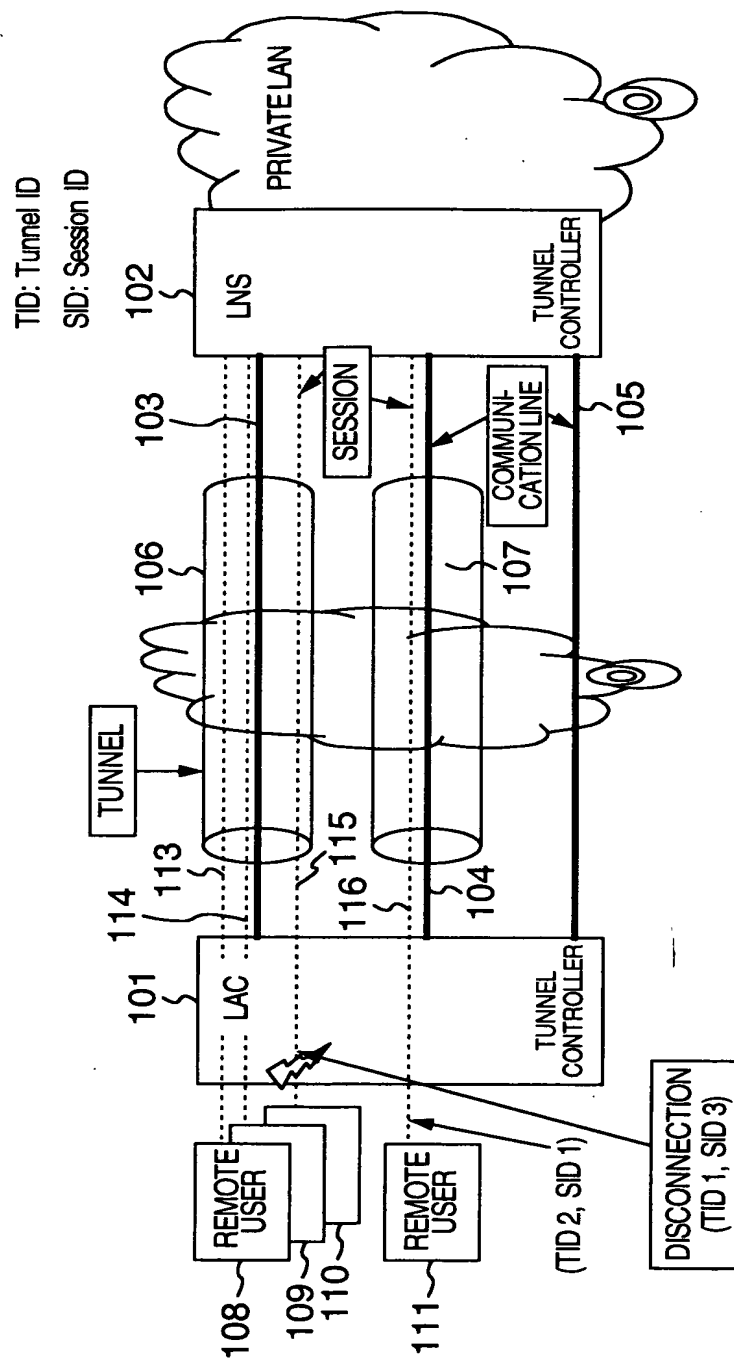


FIG.4

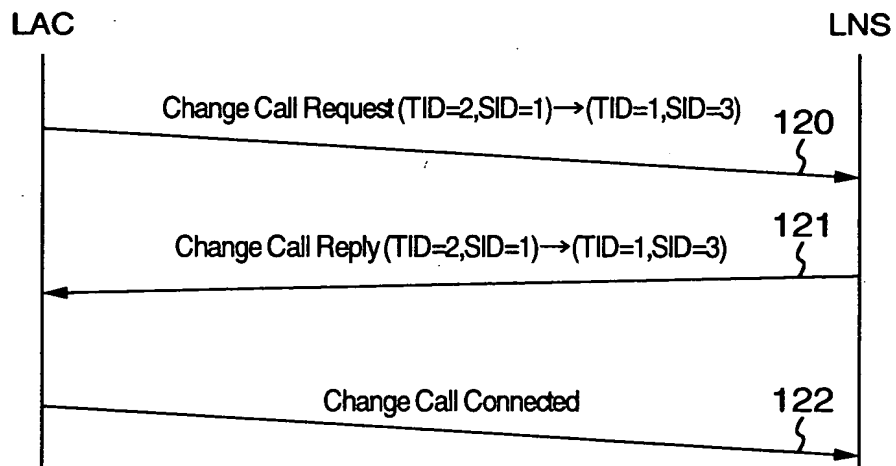


FIG.5

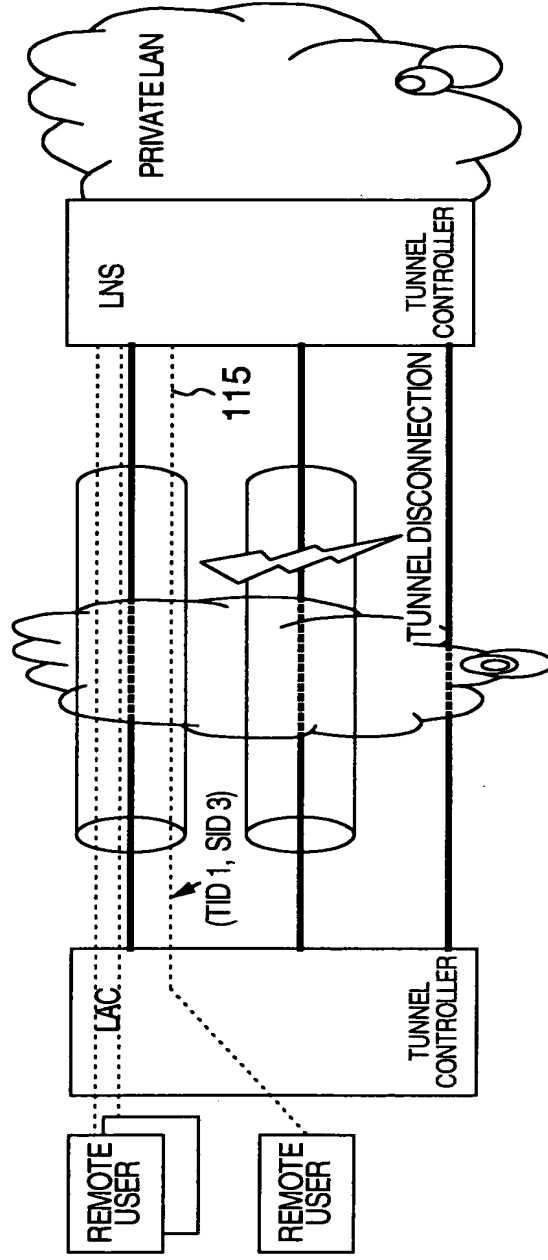


FIG.6

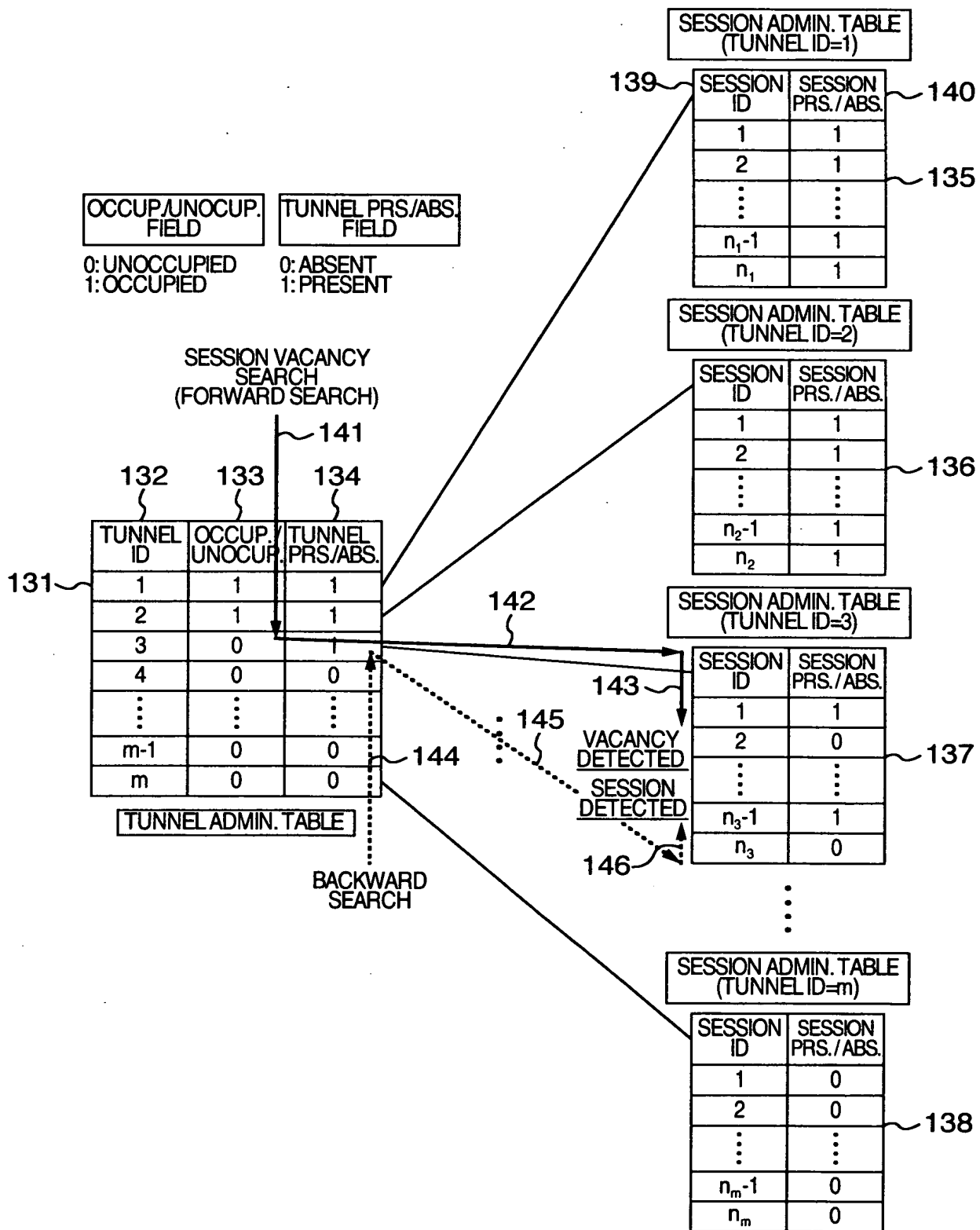


FIG.7

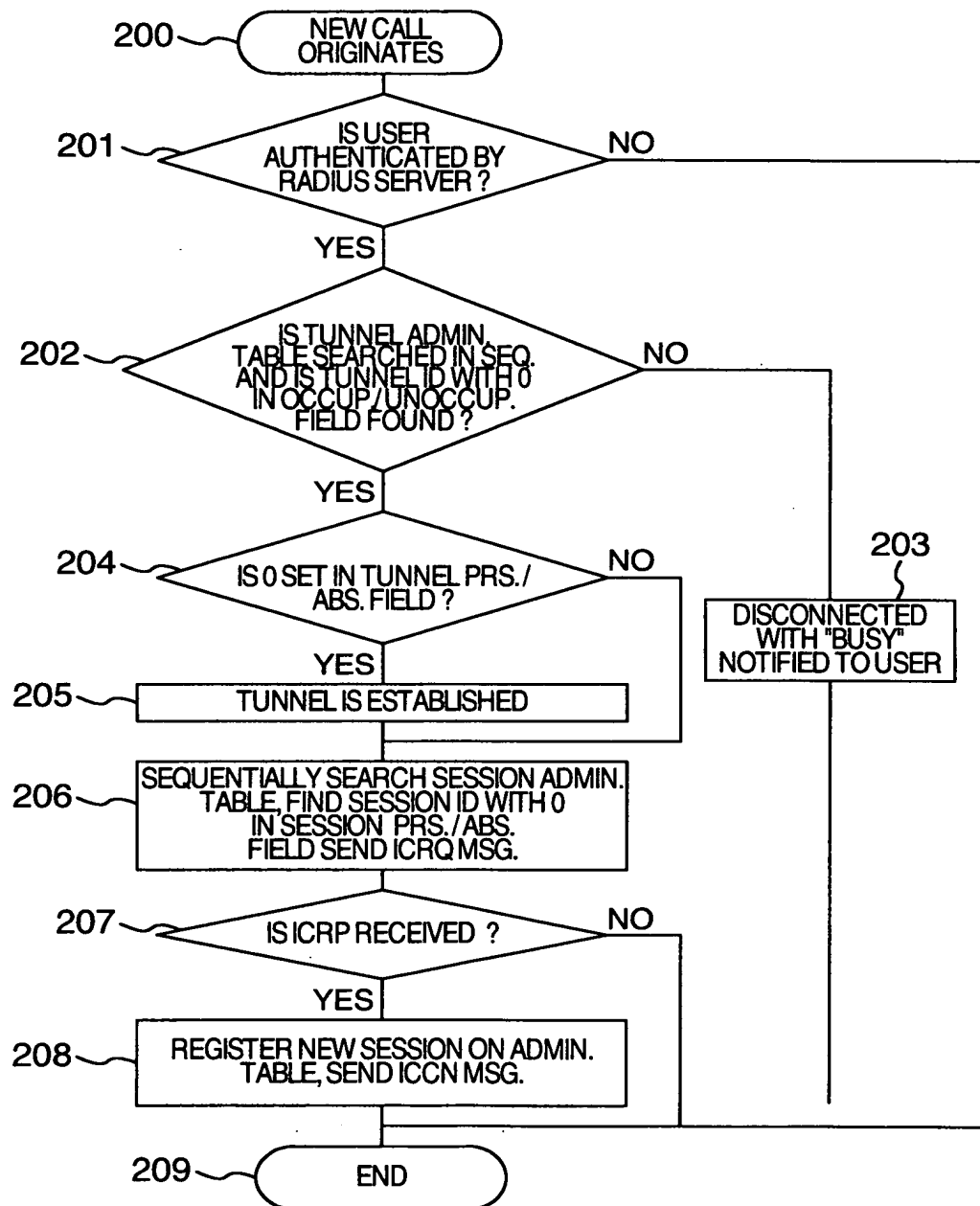


FIG.9

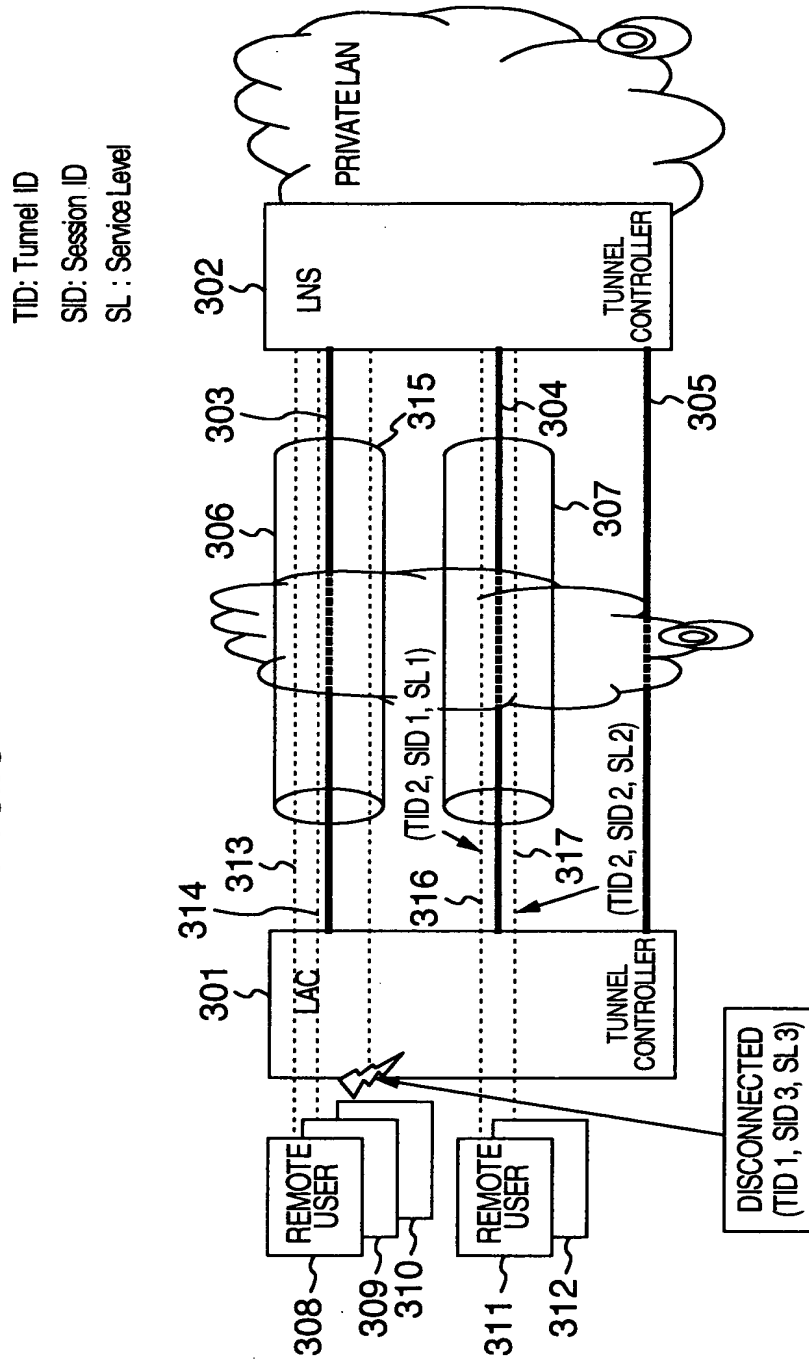


FIG.10

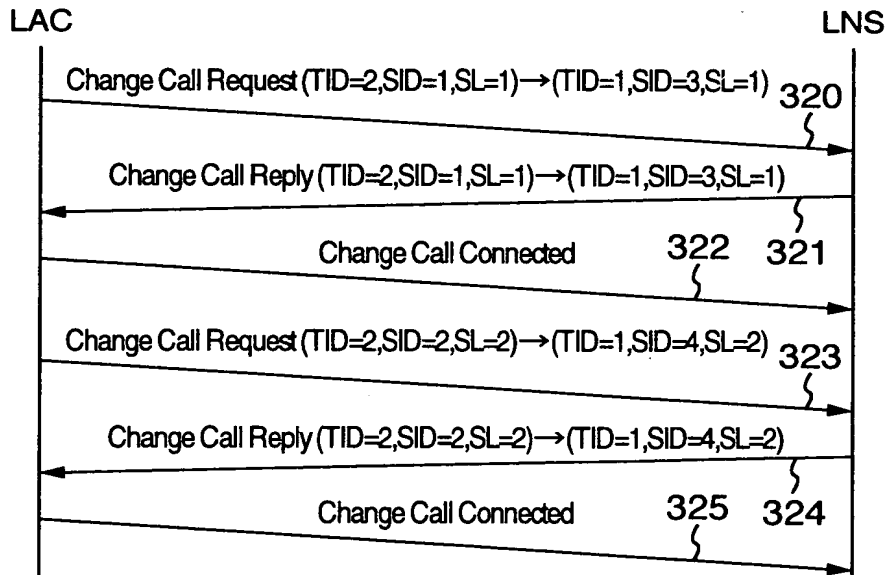


FIG.11

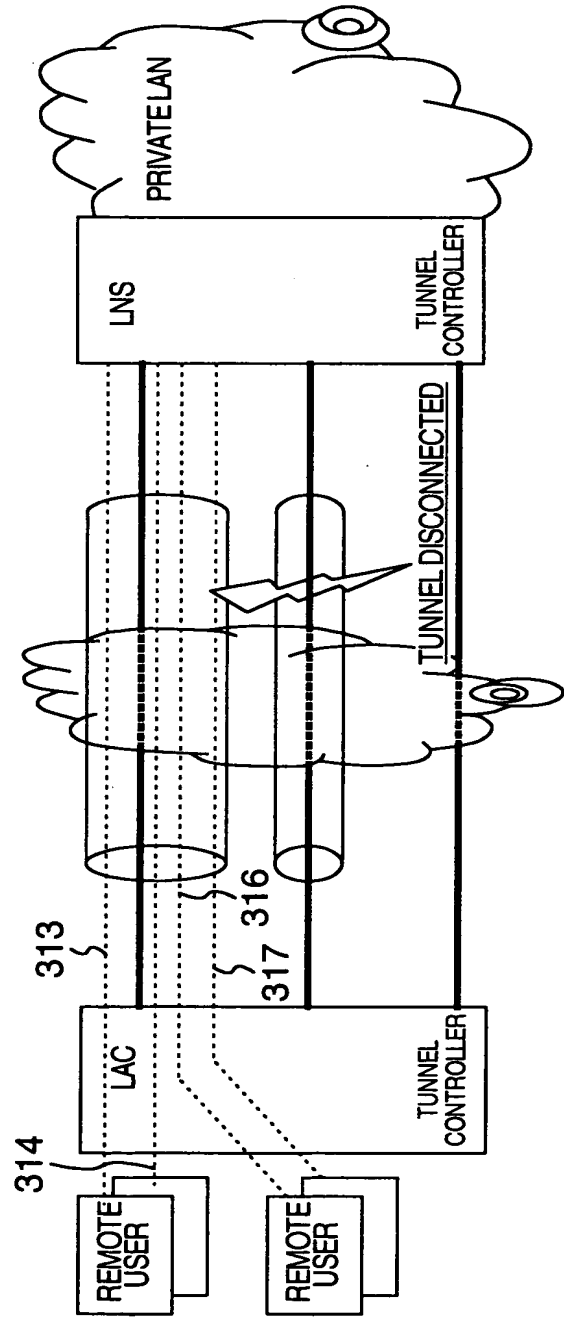


FIG.12

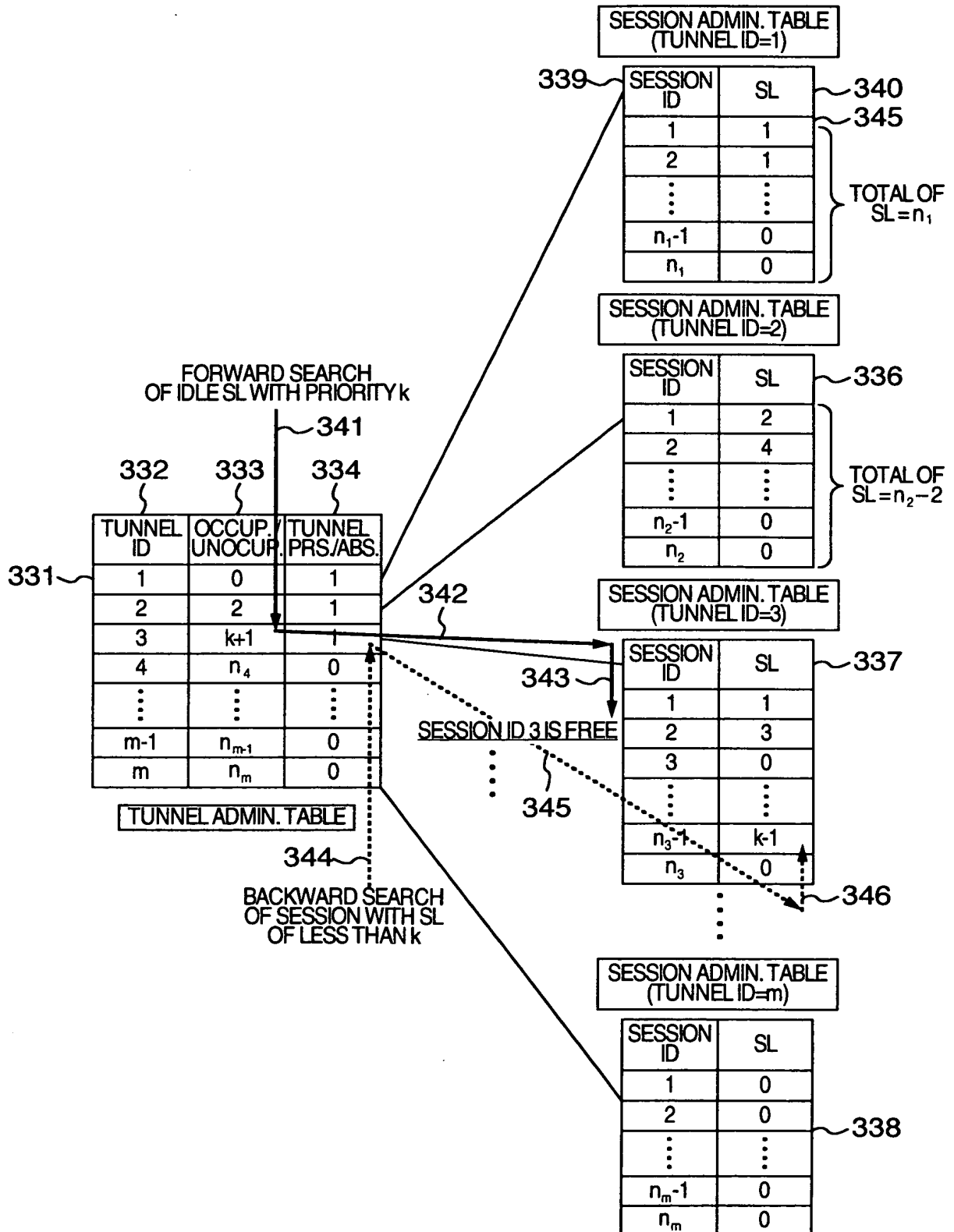
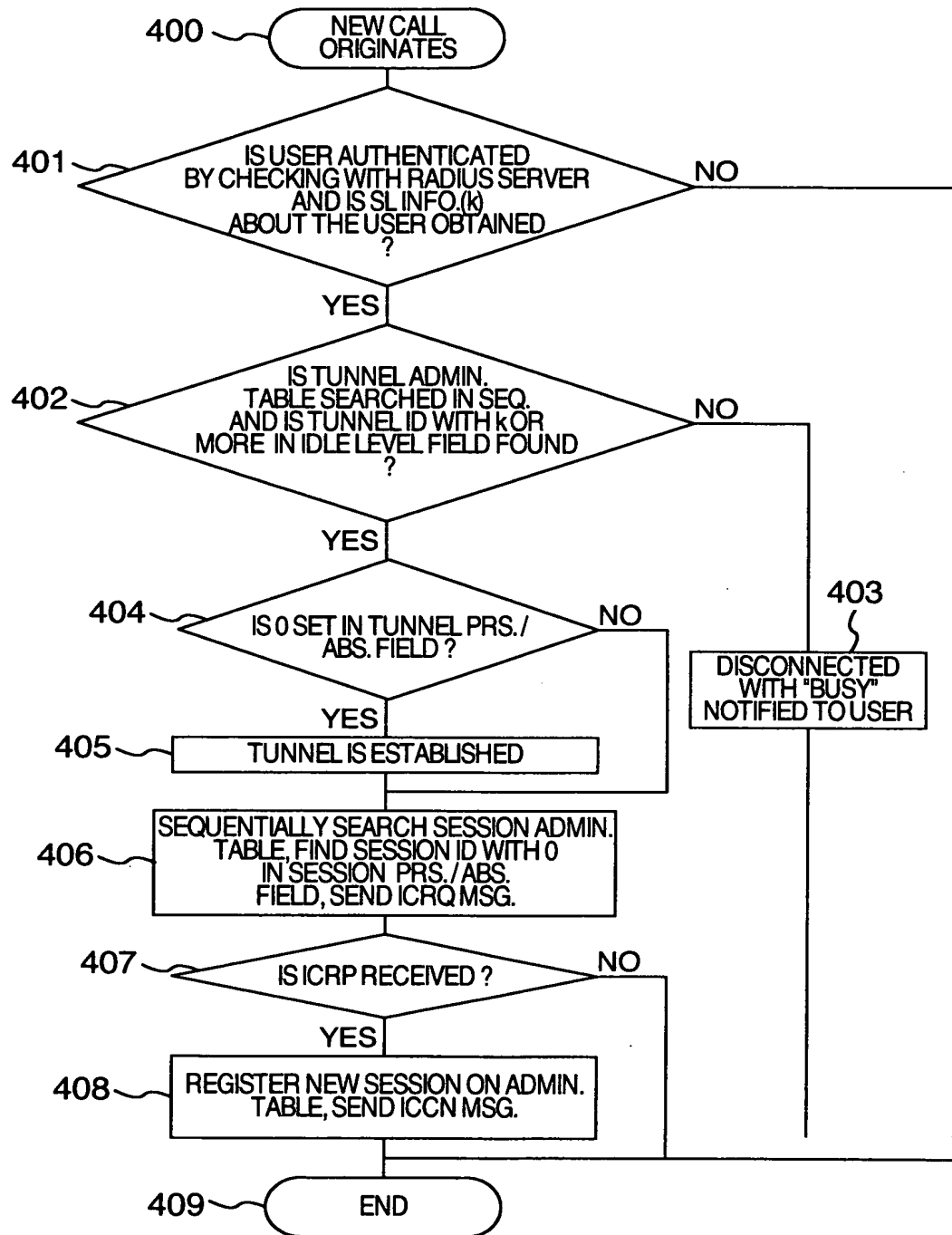


FIG.13



450 ONE SESSION (A) WITH SL OF k DISCONNECTED
(THE TUNNEL IDLE SL: $j (\geq k)$)

FIG.15

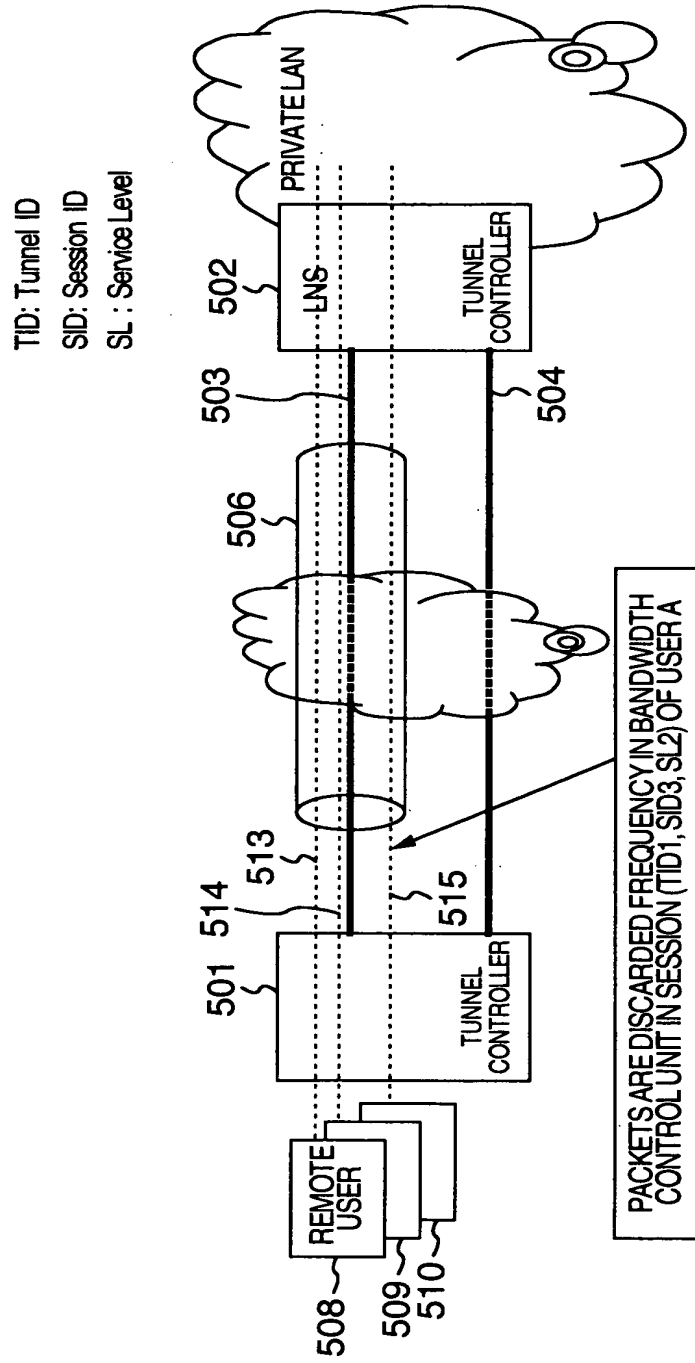


FIG.16

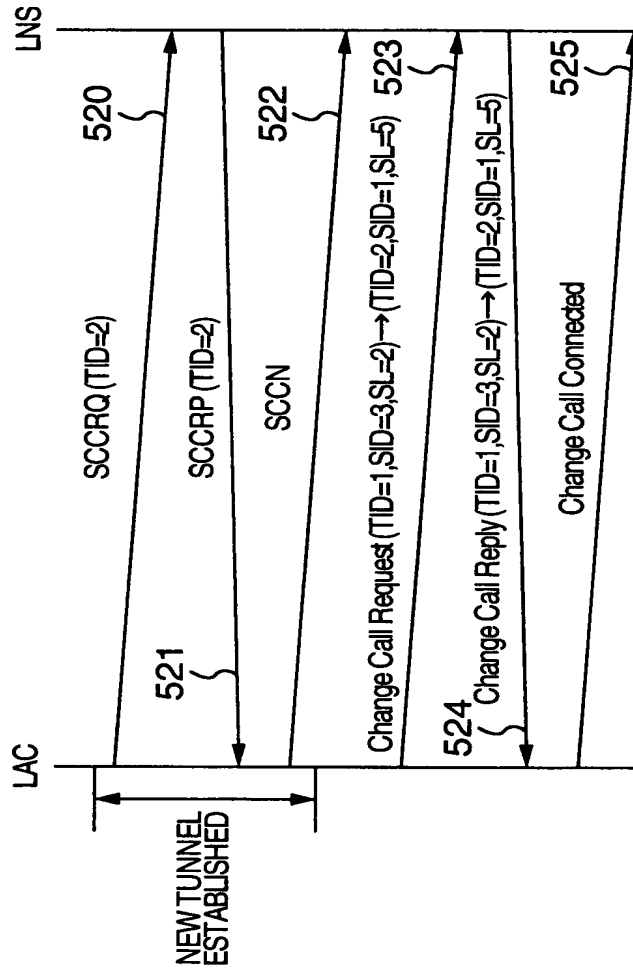


FIG.17

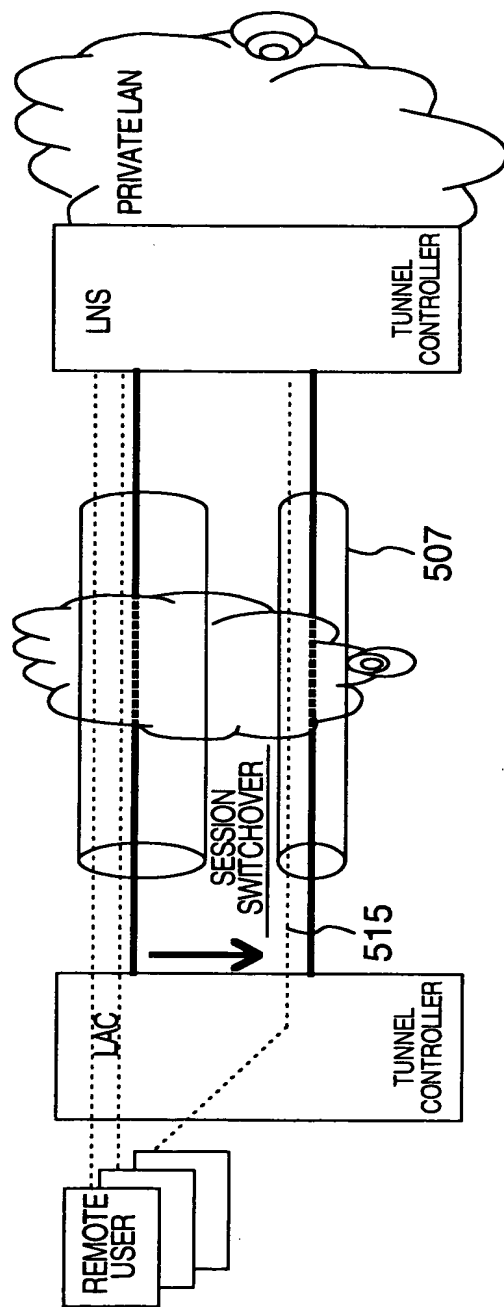


FIG.18

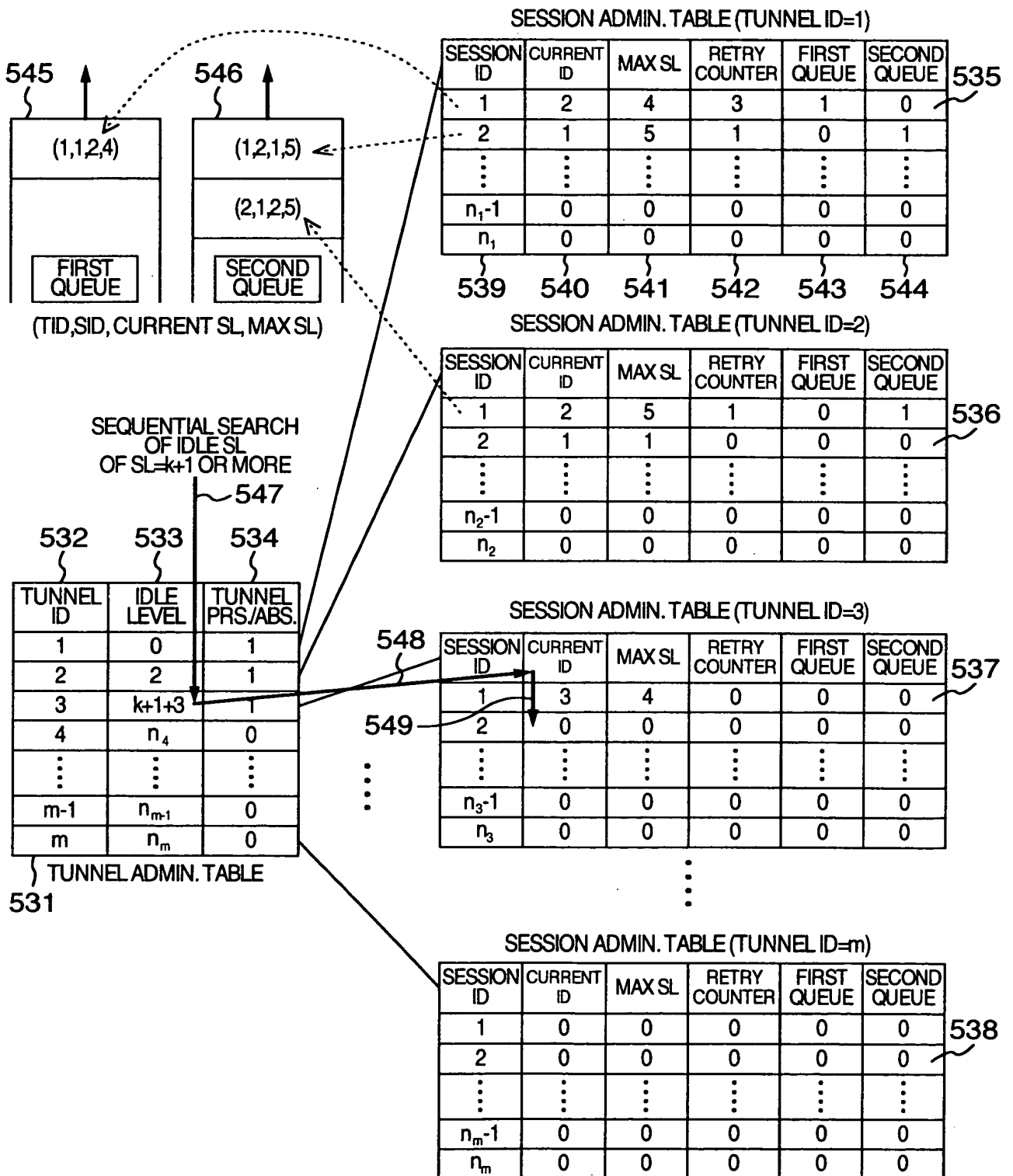


FIG.19

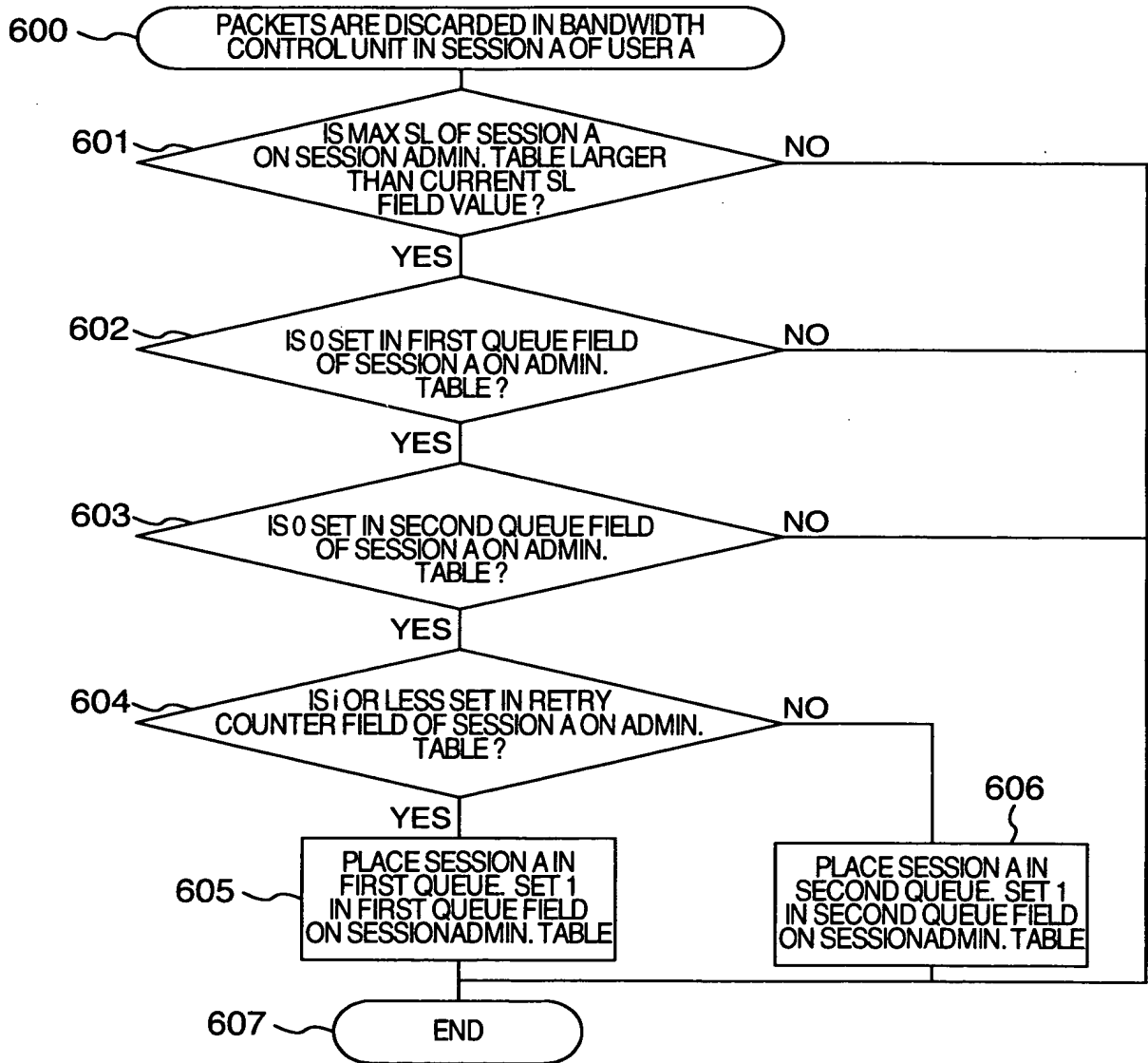


FIG.21

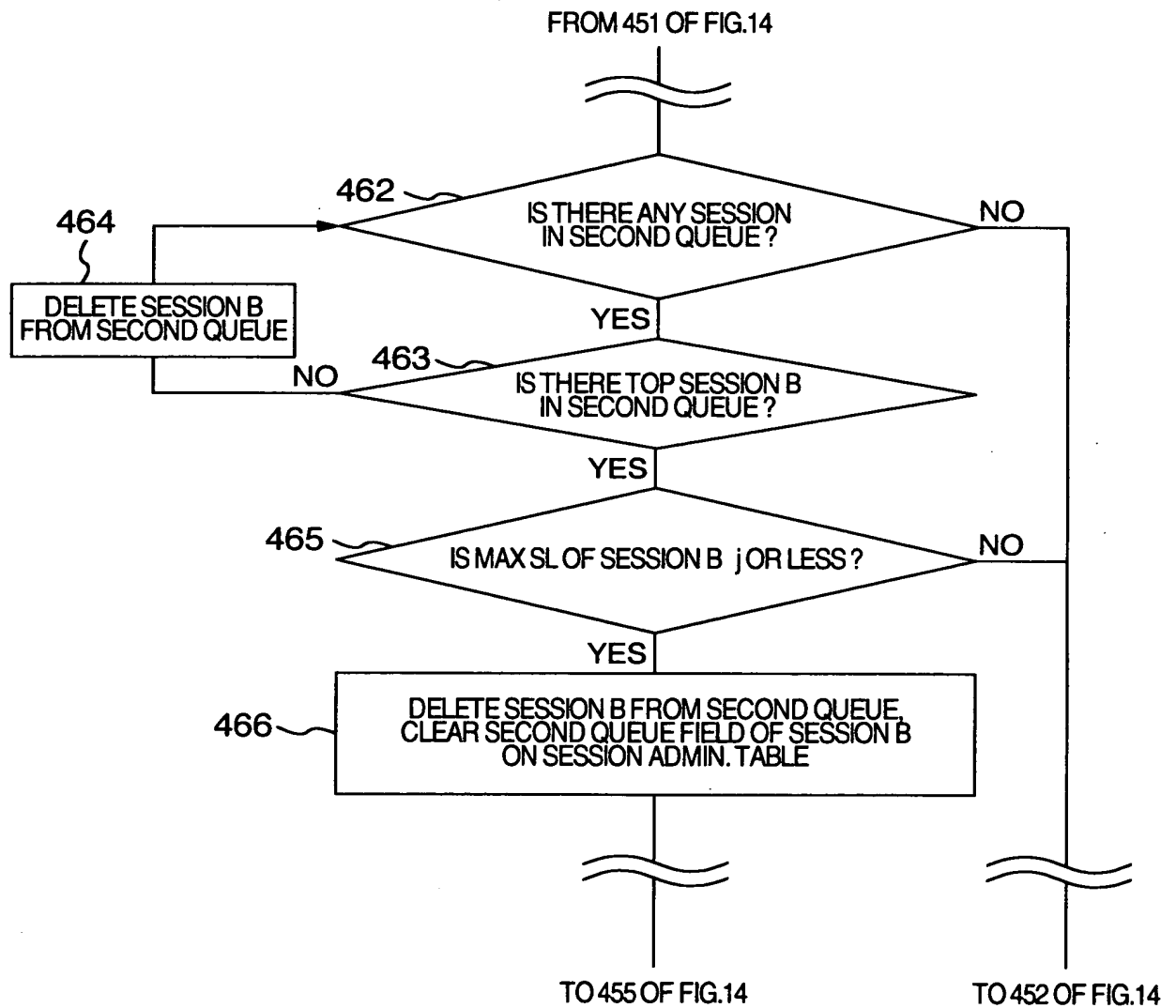


FIG.22

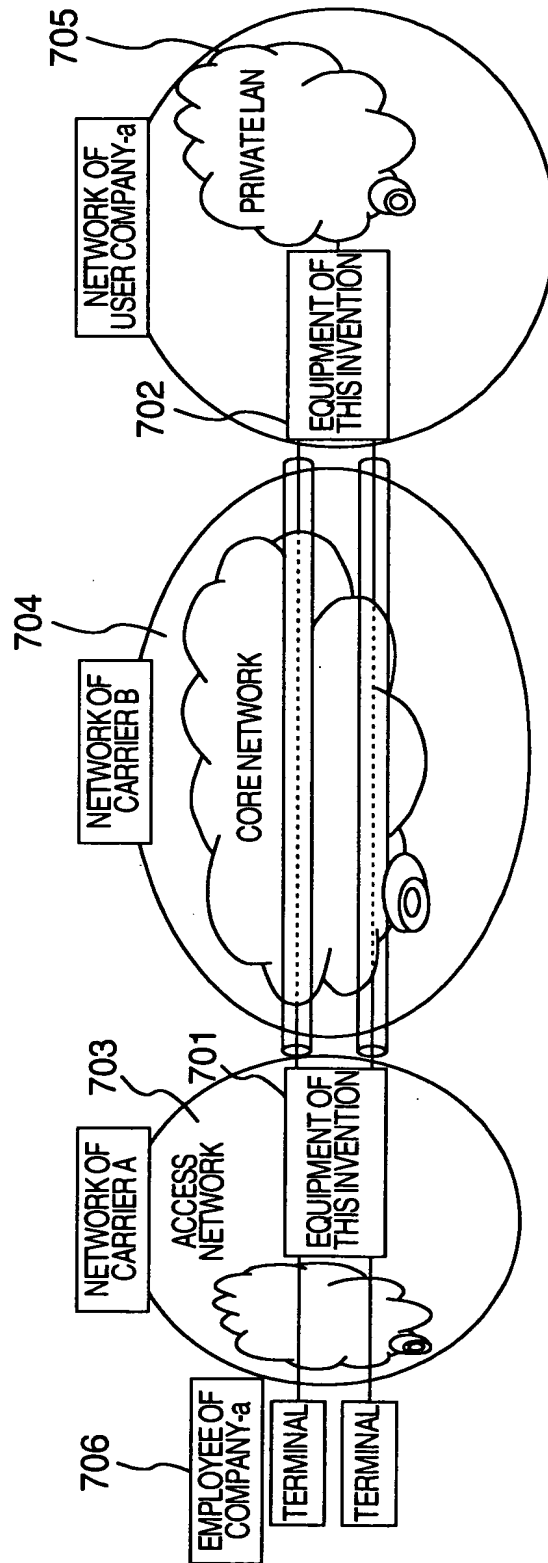


FIG.23

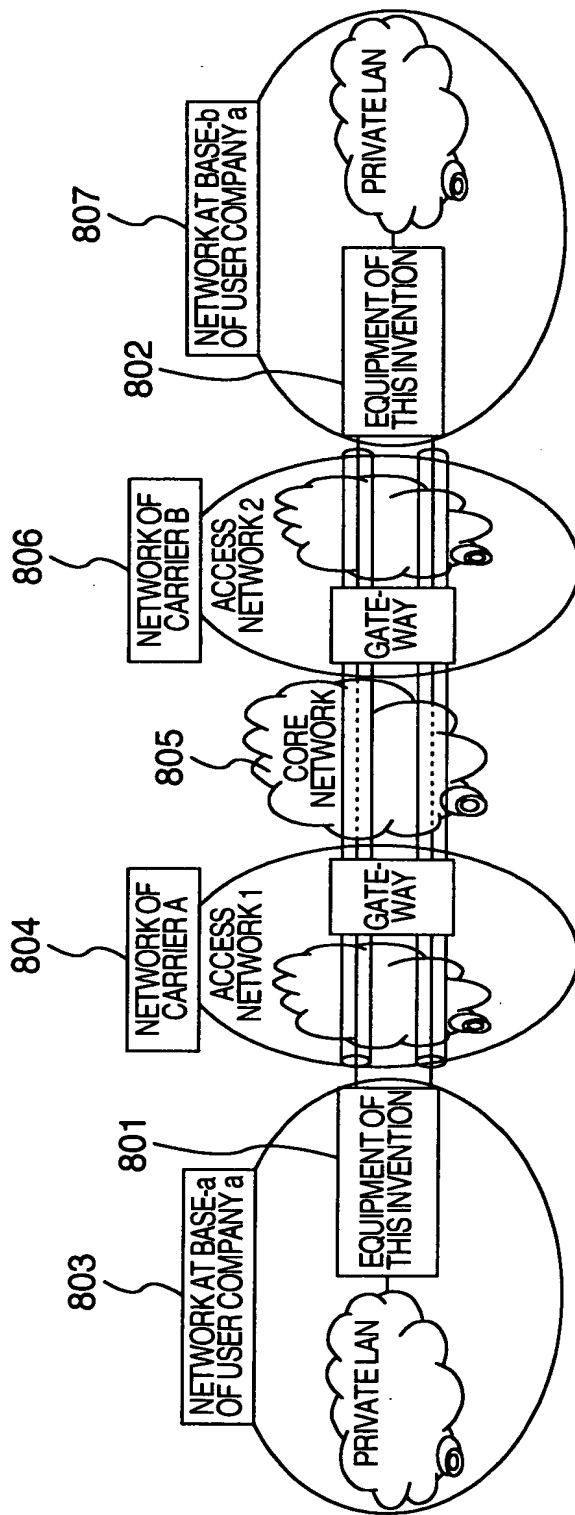


FIG.24

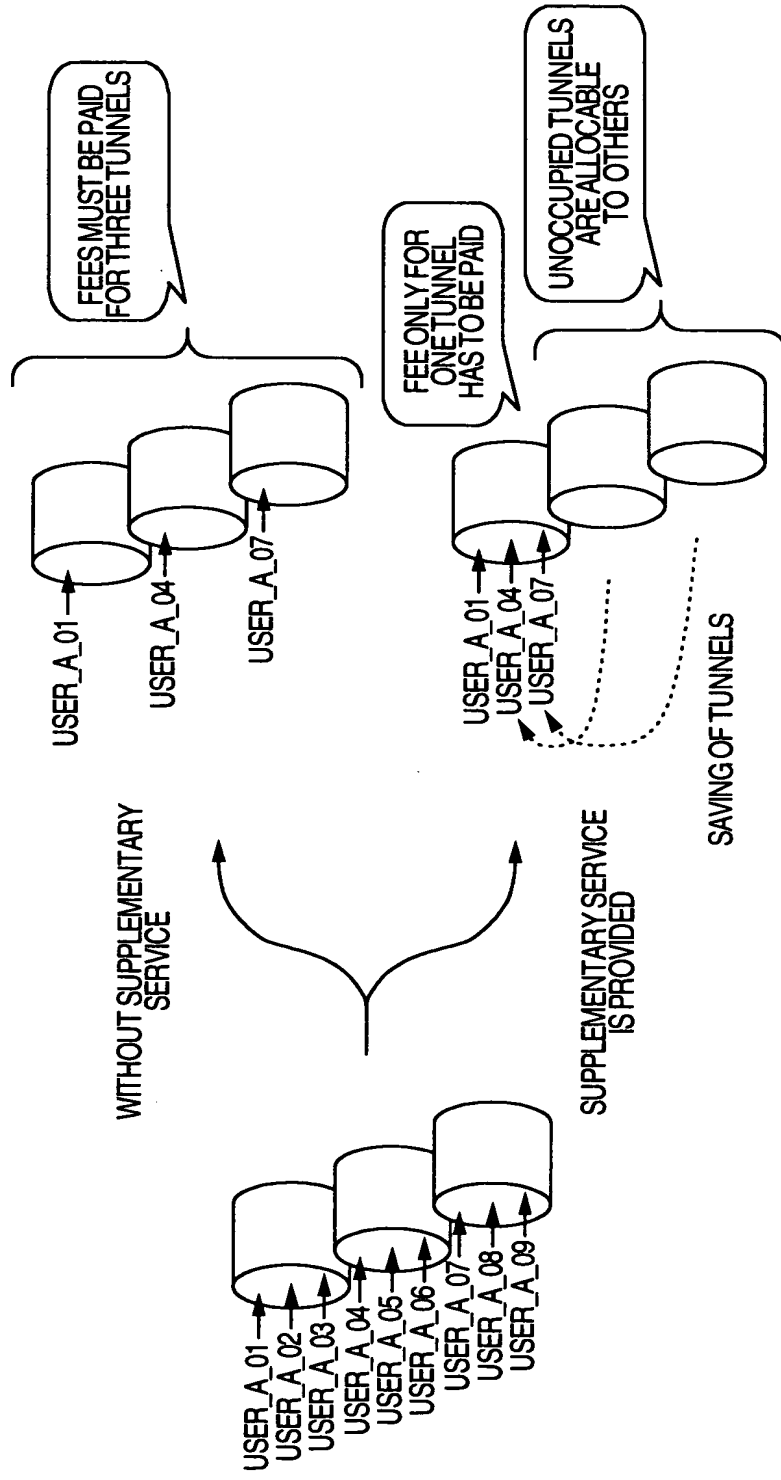
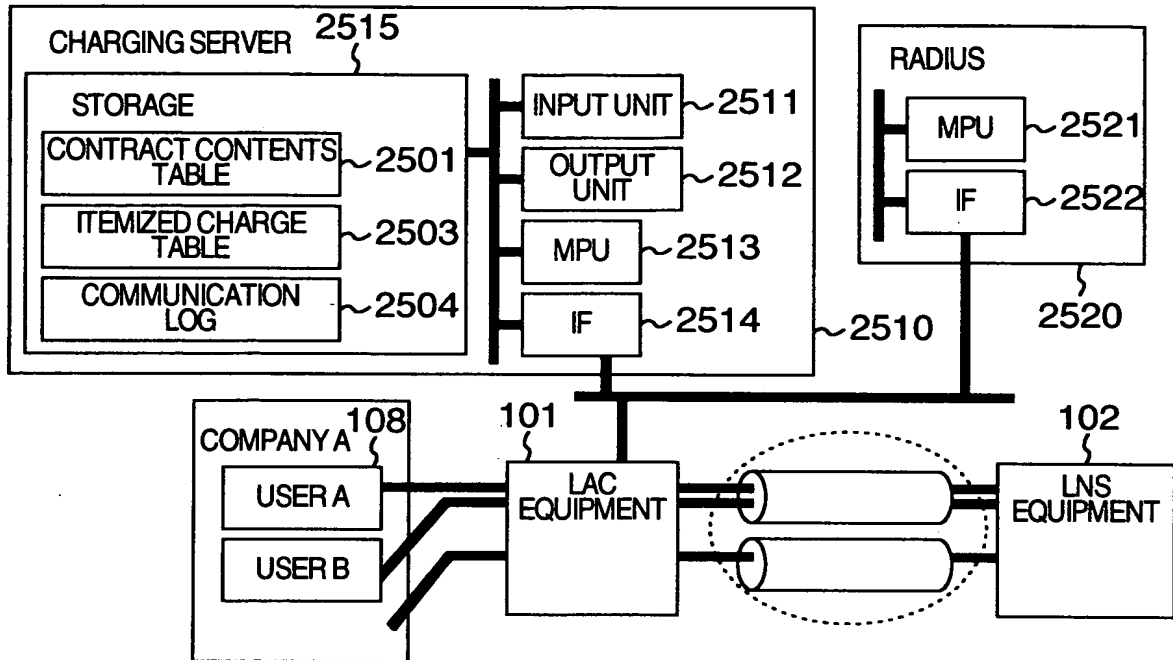


FIG.25



CONTRACT CONTENTS TABLE

CONTRACTOR	BANK ACCOUNT FOR PAYMENT	SUPPLEMENTARY SERVICE	2501
COMPANY A	BANK H XX-XXXXX	1	
COMPANY B	BANK E XX-XXXXX	0	
—	—	—	

USER ADMIN. TABLE

USER ID	PASSWORD	SERVICE LEVEL	CONTRACTOR	2502
USER_A_01	1212	1	COMPANY A	
USER_A_02	2323	2	COMPANY A	
—	—	—	—	
USER_B_01	4545	0	COMPANY B	

ITEMIZED CHARGE TABLE

CONTRACTOR	BASIC CHARGE	SUBCHARGE	COMM. CHARGE	TOTAL	2503
COMPANY A	Fa	P	Ca	Ta	
COMPANY B	Fb	O	Cb	Tb	
—	—	—	—	—	

COMMUNICATION LOG

COMM. START DATE - TIME	COMM. TIME	SERVICE LEVEL	USER ID	COMM. FEE	TUNNEL USED	2504
20000105100000	10	1	USER_A_01	100	Tunnel_01	
20000105100000	02	2	USER_A_02	20	Tunnel_02	
20000105100003	08	2	USER_A_02	0	Tunnel_01	